ParticleFinder™: Automatic Particle Location and Raman Chemical ID

Get the Full Picture of your Particles in Seconds!

ParticleFinder™ offers a user-friendly tool for automated location, size and shape characterization, and Raman analysis of thousands of particles.

Visualize ➔ Analyze ➔ Understand your particles

The combination of morphological and chemical data on a particle allows an accurate characterization and classification.

Your particles have a unique Raman chemical ID!

ParticleFinder™, together with HORIBA Raman spectrometers, enables reliable and fast characterization of particles useful for pharmaceutical and chemical material development and quality control, forensic analysis, contaminant detection and geology.

Unique Features & Benefits

- Automatic location of particles
- Statistical particle analysis and classification
- Advanced data processing, analysis and display functionality
- Automatic acquisition of Raman spectrum for each particle
- Particle size and particle shape characterization

LabSpec 6 Interface with ParticleFinder™ Module

Explore the future
**ParticleFinder™: New Features**

**Particle Classification**
Bring the full capabilities of the LabSpec 6 Spectroscopy Suite to your particle analysis. The use of LabSpec’s univariate and multivariate features as well as KnowItAll® database allows users to easily classify each particle according to its spectral fingerprint.

Your particles have a unique Raman chemical ID!

**Average Raman Spectrum and Raman Mapping on a Particle**
Now, it is possible to acquire 3 types of spectra on a particle with instant particle measurement and classification.
- Single spectrum at the center
- Average spectrum
- Full mapping

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Find out more: www.horiba.com/particlefinder

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**ParticleFinder™: Main Features**

- Automated particle location and analysis in seconds
- Up to a thousand particles analyzed with micrometer resolution
- Autothreshold and morphological filtering tools allowing quick location of particles
- Easy particle selection according to the statistical results
- Compositional analysis with unprecedented Raman accuracy
- 1 shot Raman acquisition by particle or full particle mapping
- Customizable report displaying location, size, shape and Raman spectral fingerprint

**Main Applications**

**Pharmaceutical**
- Drug formulations
- Contaminants in liquids
- Protein aggregates
- Cleanliness

**Environment - Geology**
- Micro-plastics in water
- Harmful respirable silica
- Bacteria
- Mineral sample composition

**Forensics**
- Trace evidence, fibers and chips

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**Recommended Configuration**

ParticleFinder™ (version 2) is compatible with HORIBA’s LabRAM HR Evolution & XploRA Series Raman microscopes. Recommended configuration:
- Bright-field objectives (10x, 50x, 100x)
- High resolution video camera ≥3 MPixels
- High accuracy XY sample stage
- Motorized z device + autofocus
- Additional software packages: Multivariate analysis, KnowItAll®